

Amendments To The Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

In the Claims:

1. (Currently amended) A dispenser for dispensing a metered volume of a fluid product which is a medicament having:

(a) a storage chamber for storing the fluid product in;

(b) an outlet orifice through which the fluid product is dispensable from the dispenser; and

(c) a dispensing mechanism adapted in use to dispense a metered volume of the fluid product from the storage chamber through the outlet orifice;

wherein the dispensing mechanism has:-

(i) a metering chamber which is adapted in use to provide the metered volume of the fluid product for discharge through the outlet orifice, the metering chamber being movable between:

a first volumetric state, in which the metering chamber has a first volume greater than the metered volume and is in fluid communication with the storage chamber such that, in use, an excess volume of the fluid product consisting of the metered volume and a surplus volume is transferable to the metering chamber from the storage chamber, and

a second volumetric state, in which the metering chamber has a second volume less than the first volume and no less than the metered volume and is isolated from the storage chamber such that, in use, the metered volume of the fluid product is contained in the metering chamber ready for dispensing through the outlet orifice; and

(ii) a bleed arrangement adapted in use to bleed the surplus volume of the fluid product from the metering chamber as its moves from the first volumetric state to the second volumetric state;

wherein the metering chamber is further movable from the second volumetric state to a third volumetric state which has a volume less than the second volume, movement of the metering chamber from the second to third volumetric states causing dispensing of the metered volume through the outlet orifice;

wherein the metering chamber has a boundary wall structure, the metering and storage chambers are placed in fluid communication through a channel structure in the boundary wall structure and the channel structure is selectively opened and closed when the metering chamber is in its first and second volumetric states, respectively;

wherein the boundary wall structure has first and second wall members and the metering chamber is movable between its first, second and third volumetric states by relative movement of the first and second wall members between first, second and third positions, respectively;

wherein the first wall member of the metering chamber is operatively connected to an actuating arrangement which in a first mode of operation moves the first wall member to the first position and in a second mode of operation moves the first wall member to the third position;

wherein the first wall member of the metering chamber forms the head of a plunger structure of the actuating arrangement which is mounted for reciprocal movement in the dispenser for moving the head between the different positions relative to the second wall member; and

wherein the plunger structure is arranged to move in a forward direction relative to the second wall member to move the head sequentially from the first position to the second and third positions relative to the second wall member and the head is at the forward end of the plunger structure.

2. (Original) The dispenser of claim 1 in which the second volume defines the metered volume.

3-4. (Cancelled)

5. (Original) The dispenser of ~~claim 4~~ claim 1, wherein the ~~port channel~~ structure is formed in the second wall member and wherein the first wall member is spaced from the ~~port channel~~ structure in the first position and closes the ~~port channel~~ structure in the second position.

6. (Cancelled)

7. (Currently amended) The dispenser of ~~claim 6~~ claim 1, wherein the ~~metering chamber has a boundary wall structure, the metering and storage chambers are placed in fluid communication through a port structure in the boundary wall structure and the port structure is selectively opened and closed when the metering chamber is in its first and second volumetric states, respectively, and wherein the port channel structure remains shut during movement from the second to third volumetric states.~~

8. (Previously presented) The dispenser of claim 1 in which the metering chamber is reversibly movable between its different volumetric states thereby enabling the dispenser to dispense multiple metered volumes of the fluid product.

9. (Cancelled)

10. (Currently amended) The dispenser of ~~claim 9~~ claim 1, wherein the first wall member is adapted so as to keep the ~~port channel~~ structure closed between the second and third positions.

11. (Currently amended) The dispenser of ~~claim 4~~ claim 1, wherein the first and second wall members are respectively movable and static wall members of the dispenser.
12. (Previously presented) The dispenser of claim 1 further having a valve mechanism which acts to close the outlet orifice when the metering chamber is between the first and second volumetric states.
13. (Currently amended) The dispenser of claim 12, ~~wherein the metering chamber is further movable from the second volumetric state to a third volumetric state which has a volume less than the second volume, movement of the metering chamber from the second to third volumetric states causing dispensing of the metered volume through the outlet orifice in which the valve mechanism further acts to open the outlet orifice when the metering chamber moves from its second volumetric state to its third volumetric state.~~
14. (Original) The dispenser of claim 13 in which the valve mechanism is such as to return to a closed position in which it closes the outlet orifice when the metering chamber reaches its third volumetric state.
15. (Currently amended) The dispenser of claim ~~12~~14 in which the valve mechanism is ~~a non-return valve~~ a one-way valve.
16. (Currently amended) The dispenser of ~~claim 12~~ claim 14 in which the valve mechanism has a flap structure overlying the outlet orifice which selectively adopts opening and closing positions on the outlet orifice in response to the volumetric state of the metering chamber.
17. (Previously presented) The dispenser of claim 1 in which the outlet orifice is a spray-head.

18. (Previously presented) The dispenser of claim 1 in which the bleed arrangement is adapted in use to bleed the surplus volume of the fluid product in the metering chamber to the storage chamber.

19. (Currently amended) The dispenser of claim 18, ~~wherein the metering chamber has a boundary wall structure, the metering and storage chambers are placed in fluid communication through a port structure in the boundary wall structure and the port structure is selectively opened and closed when the metering chamber is in its first and second volumetric states, respectively, and~~ wherein the bleed arrangement is adapted in use to bleed the surplus volume of the fluid product to the storage chamber through the port channel structure.

20. (Previously presented) The dispenser of claim 1 in which movement of the metering chamber from its second volumetric state to its first volumetric state is such as to cause fluid product held in the storage chamber to be transferred to the metering chamber.

21. (Previously presented) The dispenser of claim 1 wherein the storage chamber moves from an expanded volumetric state to a contracted volumetric state in response to the metering chamber moving from the second volumetric state towards its first volumetric state.

22. (Original) The dispenser of claim 21 in which the storage chamber is reversibly movable to the expanded volumetric state in response to the metering chamber moving from its first volumetric state towards the second volumetric state.

23. (Previously presented) The dispenser of claim 21 in which the storage chamber is caused to move between its expanded and contracted volumetric states by pressures created by movement of the metering chamber between its first and second volumetric states.

24. (Previously presented) The dispenser of claim 23, further having a valve mechanism which acts to close the outlet orifice when the metering chamber is between the first and second volumetric states, wherein the valve mechanism has an opening pressure threshold which is greater than the pressure needed to move the storage chamber from its contracted state to its expanded state whereby the valve mechanism remains in a closed position during movement of the metering chamber from its first volumetric state to its second volumetric state.

25. (Previously presented) The dispenser of claim 21 in which the volume of the expanded volumetric state of the storage chamber decreases after each metered volume dispensed.

26. (Previously presented) The dispenser of claim 21 in which the storage chamber has a boundary wall structure having first and second wall members which move relative to one another between first and second positions to bring the storage chamber to its expanded and contracted volumetric states, respectively.

27. (Currently amended) The dispenser of claim 26, ~~wherein the metering chamber has a boundary wall structure, the metering and storage chambers are placed in fluid communication through a port structure in the boundary wall structure and the port structure is selectively opened and closed when the metering chamber is in its first and second volumetric states, respectively,~~ in which the port channel structure is located in the first wall member of the storage chamber with the second wall member of the storage chamber being spaced from the port channel structure in the first position.

28. (Currently amended) The dispenser of claim 27, wherein the spacing of the second wall member from the port channel structure when in the first position decreases after each metered volume dispensed.

29. (Currently amended) The dispenser of claim 1 which is hand-held with the dispensing mechanism hand-operable.

30-31. (Cancelled)

32. (Currently amended) The dispenser of ~~claim 4~~ claim 1, in which the first wall member of the metering chamber forms an end wall of the metering chamber which is mounted for sealing slidable movement on the second wall member.

33. (Previously presented) The dispenser of claim 26 in which the second wall member of the storage chamber forms an end wall of the storage chamber which is mounted for sealing slidable movement on the first wall member.

34. (Currently amended) The dispenser of ~~claim 30~~ claim 1, wherein the actuating arrangement has a biasing member which biases the first wall member of the metering chamber to the third position in the second mode of operation.

35. (Cancelled)

36. (Currently amended) The dispenser of claim 1, ~~35~~ in which the fluid product is selected from the group consisting of a liquid, a viscous product, a powder and a gas.

37. (Cancelled)

38. (Previously presented): A dispenser unit having a dispenser according to claim 1 in which the outlet orifice is an outlet orifice of the unit through which the metered volume of the fluid product is, in use, dispensed to the external environment.

39 - 44 (Cancelled):

Add the following new claims:

45. (New) The dispenser of claim 14, wherein the plunger structure is reciprocally movable relative to the valve mechanism.
46. (New) The dispenser of claim 14, wherein the valve mechanism is on the second wall member of the metering chamber boundary wall structure.
47. (New) The dispenser of claim 14, wherein the outlet orifice comprises a channel structure in the second wall member of the metering chamber boundary wall structure which the valve mechanism is adapted to selectively open and close.
48. (New) The dispenser of claim 12, wherein the valve mechanism has an opening pressure threshold and the dispensing mechanism is adapted such that the opening pressure threshold is only met when the plunger structure head moves forwardly from its second to third positions relative to the second wall member.
49. (New) The dispenser of claim 48, wherein the plunger structure is reciprocally movable relative to the valve mechanism.
50. (New) The dispenser of claim 48, wherein the valve mechanism is on the second wall member of the metering chamber boundary wall structure.
51. (New) The dispenser of claim 48, wherein the outlet orifice comprises a channel structure in the second wall member of the metering chamber boundary

wall structure which the valve mechanism is adapted to selectively open and close.

52. (New) The dispenser of claim 1; wherein the head at the forward end of the plunger structure forms a rear end wall of the metering chamber.